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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/626,432	07/23/2003	Toshiro Tojo	FUJI 20.526	9820	
26304	7590 09/20/2006		EXAM	EXAMINER	
KATTEN MUCHIN ROSENMAN LLP			ZHENG, EVA Y		
	SON AVENUE K, NY 10022-2585		ART UNIT	PAPER NUMBER	
	,		2611		
			DATE MAILED: 09/20/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	1-
Office Action Commence	10/626,432	TOJO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Eva Yi Zheng	2611	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet w	uth the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING E - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statul Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI. 136(a). In no event, however, may a d will apply and will expire SIX (6) MO te, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 23.	<i>July</i> 2003.		
<u>, </u>	is action is non-final.		
3) Since this application is in condition for allows	·	•	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	J. 11, 453 O.G. 213.	
Disposition of Claims			
4) ⊠ Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-9 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accompanies and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the Examination.	cepted or b) objected to e drawing(s) be held in abeya ction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list 	nts have been received. Its have been received in A ority documents have beer au (PCT Rule 17.2(a)).	Application No I received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No. 5) Notice of	Summary (PTO-413) s)/Mail Date nformal Patent Application	
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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-4 and 6-9 are rejected under 35 U.S.C. 102(e) as being unpatentable by Kuwahara et al (US 6,647,276).
- a) Regarding to claims 1 and 6, Kuwahara et al disclose a data transmission apparatus comprising:

a spread spectrum processing part that performs spread spectrum process on an input signal (block 13 and 15 in Fig. 1);

an analog-to-digital conversion part that performs an analog-to-digital conversion process on a signal that has undergone said spread spectrum process (block 4 in Fig. 1); and

an inverse spread spectrum processing part that performs an inverse spread spectrum process of said spread spectrum process on a signal that has undergone said analog-to-digital conversion process (block 7 and 9 in Fig. 1).

b) Regarding to claims 2 and 7, Kuwahara et al disclose the data transmission apparatus as claimed in claim 1, wherein said spread spectrum process is performed

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using a predetermined PN sequence (Col 3, L34-37).

c) Regarding to claims 3 and 8, Kuwahara et al disclose the data transmission apparatus as claimed in claim 2, wherein a PN sequence number of said PN sequence is set to a value that is adequate for substantial improvement in the precision of said analog-to-digital conversion process so that transmission data contained in the input signal can be detected with predetermined precision (inherent in the radio station as shown in Fig. 1; Col 4, L21-36).

d) Regarding to claims 4 and 9, Kuwahara et al disclose the data transmission apparatus as claimed in claim 1, further comprising:

a gain controlling part that performs a signal gain controlling process on an input signal, wherein said spread spectrum processing part performs a spread spectrum process on a signal that has undergone said signal gain controlling process (phase and amplitude calibration block 11 in Fig. 1).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwahara et al (US 6,647,276) in view of Kato et al. (US 6,021,137).

e) Regarding to claim 5, Kuwahara et al disclose a power line carrier communication system comprising:

data transmission apparatus comprising:

a spread spectrum processing part that performs spread spectrum process on an input signal (block 13 and 15 in Fig. 1);

an analog-to-digital conversion part that performs an analog-to-digital conversion process on a signal that has undergone said spread spectrum process (block 4 in Fig. 1); and

an inverse spread spectrum processing part that performs an inverse spread spectrum process of said spread spectrum process on a signal that has undergone said analog-to-digital conversion process (block 7 and 9 in Fig. 1).

Kuwahara et al disclose all the subject matters above except for the specific teaching of a power line and terminate to a data transmission apparatus.

However, Kato et al. disclose such a power line functioning as a data transmission path for transmitting data (5 in Fig. 1); and a data transmission apparatus that terminates the power line (1-4 in Fig. 1).

It is well known that communication system can be used with power line, wireless, infrared, laser and many other methods. Therefore, it is obvious to one of ordinary skill in art to combine the teaching of power line by Kato et al. in the transmission system of Kuwahara. By doing so, perform data transmission with better power control.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eva Y Zheng whose telephone number is 571-272-3049. The examiner can normally be reached on M-F, 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571-272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eva Yi Zheng Examiner Art Unit 2611

September 13, 2006

SUPERVISORY PATENT EXAMINER